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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,309 09/05/2003		Robert St-Amour	40128/00701	8193	
EAVVADIID	7590 03/23/2007 I & MARCIN, LLP	EXAMINER			
Suite 702	o wardin, llr	SUNG, CHRISTINE			
150 Broadway New York, NY 10038			ART UNIT	PAPER NUMBER	
New York, IVI	10050		2884		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MO	NTHS	03/23/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/656		ST-AMOUR ET AL.				
		Examir	er	Art Unit				
		Christin		2884				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the	THIS COMMUNICATION event, however, may a reply be tire swill expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this cor (D) (35 U.S.C. § 133).				
Status								
1)🛛	Responsive to communication(s) file	ed on <u>1</u> 2 February 2	2007.					
<i>'</i> —	1	2b)⊠ This action is						
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	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-49</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>21-49</u> is/are allowed.							
6)⊠	Di⊠ Claim(s) <u>1-20</u> is/are rejected.							
•	7) Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or election	requirement.					
Applicati	on Papers				,			
9) 🗌 🤈	The specification is objected to by th	e Examiner.						
10)	The drawing(s) filed on is/are							
	Applicant may not request that any object							
	Replacement drawing sheet(s) including							
11)	The oath or declaration is objected t	o by the Examiner.	Note the attached Office	e Action or form PT	O-152.			
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority			)-(d) or (f).				
	2. Certified copies of the priority			ion No.				
	Copies of the certified copies application from the Internation	of the priority docu	ments have been receiv		Stage			
* 5	See the attached detailed Office action	· · · · · · · · · · · · · · · · · · ·		ed.				
Attachmen			<b>∧</b> □ •••••• •	· (DTO 440)				
	e of References Cited (PTO-892) on of Draftsperson's Patent Drawing Review (	PTO-948)	4) Interview Summan Paper No(s)/Mail D					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5) Notice of Informal 6) Other:					
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# Response to Amendment

1. The amendment filed on February 12, 2007 has been accepted and entered.

2. The request for Continued examination filed on February 12, 2007 has been accepted and entered.

## Claim Rejections - 35 USC § 101

### 3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claims fail to include transformation from one physical state to another. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely predicting the performance would not appear to be sufficient to constitute a tangible result, since the outcome of the predicting step has not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible.

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## Allowable Subject Matter

4. Claims 21-49 are allowed.

5. Claims 1-20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-20, applicant's arguments are persuasive. None of the prior art of record specifies or makes obvious a method of determining or predicting a whole printing medium, namely the step of analyzing interferometric data of the whole printing medium to determine the performance of the whole printing media. Interferometry is a known type of method of spectral data, however, none of the prior art of record specifies or makes obvious the step of applying such an analysis technique to a whole printing medium (unused ink) to predict the performance of the printing medium. Prior art references such as Bowers discloses testing ink for concentration of ink using an optical analysis system (uses ratio technique) and other references such as McFarland discloses a conventional interferometer that creates a library of reference spectral data but does not explicitly state measuring whole printing medium or unused ink. Further many prior art references test the performance of ink by printing the ink on a paper. Further, other prior art references such as Hustert (US Pre Grant Publication 20010043329 A1) discloses measuring whole ink performance by calorimetric or color strength/difference methods.

Although interferometry is a known method for analyzing articles, none of the prior art of record specifies using such a technique on whole printing media (or unused ink) to determine the performance of the ink. Further other references disclose other methods of determining ink performance, but do not disclose determining performance based on interferometric analysis.

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Regarding claims 21-49, applicant's arguments are persuasive. None of the prior art of record specifies or makes obvious a device for evaluating a whole printing medium for use in a printing process, namely the interferometric means for generating spectral data indicative of the performance of the whole printing medium in combination with the means for predicting the performance of the whole printing medium. Again, interferometry is a known method of analyzing materials, however, none of the prior art of record specifies using such a technique to determine the performance of the whole printing media or (unused ink).

#### · Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Sung whose telephone number is 571-272-2448. The examiner can normally be reached on Monday- Friday 9-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christine Sung Examiner Art Unit 2884

CS